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### 1. [T12.01: Advanced Structural Health Monitoring](#)

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:LaRCParticipating Center(s):JSCThis subtopic seeks new and innovative technologies in structural health monitoring (SHM), integrated vehicle health management (IVHM) systems, their corresponding analysis tools, and smart materials. Advanced structural composites and sensors with the potential to enable or enhance distributed damage detection for aerospace vehicles and spacecraft are so ...

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### 2. [T12.02: High Temperature Materials and Sensors for Propulsion Systems](#)

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:GRCAAdvanced materials, structures and sensors are crosscutting technologies which are essential in the design, development and health maintenance/detection needs of components and subsystems that will be needed in future generations of aeronautics and space propulsion and power systems. Materials will require multiple or tailored functions that are designed to meet specific mission need ...

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### 3. [T12.03: Advanced Bladder Materials for Inflatable Habitats](#)

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:JSCThis subtopic solicits advanced bladder materials for use in inflatable structures. Inflatable structures are a solution for increasing the volume and decreasing the weight and launch package for habitats, airlocks, and potentially other crewed vessels. Ideal bladder materials are low permeability gas barriers, durable over time, and do not degrade due to effects such as cold flow. ...

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### 4. [T12.04: Experimental and Analytical Technologies for Additive Manufacturing](#)

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:MSFCParticipating Center(s):JSC,LaRC,GRC,ARCAAdditive manufacturing is becoming a leading method for reducing costs, increasing quality, and shortening schedules for production of innovative parts and component that were previously not possible using more traditional methods of manufacturing. In the past decade, methods such as selective laser melting (SLM) have emerged as the leading ...

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### 5. [T12: Materials, Structures, Mechanical Systems and Manufacturing](#)

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Materials, Structures, Mechanical Systems, and Manufacturing This topic is extremely broad, covering five technology areas: materials, structures, mechanical systems, manufacturing,

and cross-cutting technologies. The topic consists of enabling core disciplines and encompasses fundamental new capabilities that directly impact the increasingly stringent demands of NASA science and exploration missi ...

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## **[6. T13.01: Advanced Propulsion System Ground Test and Launch Technology](#)**

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:SSCParticipating Center(s):MSFC,KSCRocket propulsion development is enabled by rigorous ground testing to mitigate the risk inherent in spaceflight. As next generation propulsion systems are developed matching/related advancements in test technologies to appropriately test the new propulsion systems as well as more overall advancements in test technologies are also required. This subto ...

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## **[7. T13: Ground and Launch Systems Processing](#)**

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Ground and Launch Systems Processing The goal of this topic is to provide a flexible and sustainable US capability for ground processing as well as launch, mission, and recovery operations to significantly increase safe access to space. The Ground and Launch Systems Processing topic consists of four technology subareas, including: technologies to optimize the operational life-cycle, environmental ...

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## **[8. T3.01: Energy Harvesting Technology Development](#)**

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:SSCParticipating Center(s):JSC,KSC,GRCThe NRC has identified a NASA Top Technical Challenge as the need to "Increase Available Power". Additionally, a NASA Grand Challenge is "Affordable and Abundant Power" for NASA mission activities. As such, novel energy harvesting technologies are critical toward supporting future power generation systems to begin to meet these challenges. This sub ...

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## **[9. T3: Space Power and Energy Storage](#)**

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Space Power and Energy Storage is divided into four technology areas: power generation, energy storage, power management and distribution, and cross cutting technologies. NASA has many unique needs for space power and energy storage technologies that require special technology solutions due to extreme environmental conditions. These missions would all benefit from advanced technologies that provid ...

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**10. [T4.01: Dynamic Servoelastic \(DSE\) Network Control, Modeling and Optimization](#)**

Release Date: 11-14-2014 Open Date: 11-14-2014 Close Date: 01-28-2015

Lead Center: AFRC Participating Center(s): LaRC, JPL, ARC This subtopic addresses advanced control-oriented techniques for dynamic servoelastic (DSE) terrestrial, planetary, and space environment flight systems using distributed network sensor and control systems. Methods include modeling, simulation, optimization and stabilization of DSE systems to actively and/or adaptively control structural dynamic ...

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